

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Shoichiro YAMAGUCHI, Tatsuo KAWAGUCHI and
Takatoshi NEHAGI

Filed: Concurrently Herewith

For: A METHOD FOR FORMING A POLARIZATION-INVERSED PORTION

Box Patent Application
Assistant Commissioner for Patents
Washington DC 20231

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to the **Box Patent Application, Assistant Commissioner for Patents, Washington D.C. 20231** on May 31, 2001 under "EXPRESS MAIL" mailing label number **EL742732561US.**

Elizabeth A. VanAntwerp
Elizabeth A. VanAntwerp

PRELIMINARY AMENDMENT

Sir:

Prior to examination, Applicants wish to amend the subject application as follows:

In the Specification:

Page 5, between lines 23 and 24, insert the following paragraph.

The file of this patent contains at least one drawing or photograph executed in color.

Copies of this patent with color drawing(s) or photograph(s) will be provided by the Patent and Trademark Office upon request and payment of the necessary fee.

In the Claims:

Please replace claims 4, 5, 8-10 and 12 with the following:

4. (Amended) A method for forming a polarization-inversed portion as defined in claim 1, wherein the first electrode is composed of a ctenoid electrode having plural strip electrode pieces, and the distance between the first electrode and the second electrode is controlled through the adjustment of the lengths of the electrode pieces of the first electrode.

5. (Amended) A method for forming a polarization-inversed portion as defined in claim 1, wherein the second voltage is adjusted in the formation of the second polarization-inversed portion, thereby to control the size of the second polarization-inversed portion.

8. (Amended) A method for forming a polarization-inversed portion as defined in claim 1, wherein the first electrode is positive and the second electrode is negative.

9. (Amended) A method for forming a polarization-inversed portion as defined in claim 1, wherein a positive potential is applied to the first electrode on a planer electrode, provided on the rear surface of the substrate and connected with the first electrode, being set to be negative.

10. (Amended) A method for forming a polarization-inversed portion as defined in claim 1, wherein a polarization axis of the substrate is inclined from a direction parallel to the main surface.

12. (Amended) A method for forming a polarization-inversed structure as defined in claim 1, wherein plural first polarization-inversed portions and plural second polarization-inversed portions are formed to constitute a periodical polarization-inversed structure.

REMARKS

Prior to examination, Applicants respectfully request entry of this Amendment in which the specification has been amended to correct minor informalities.

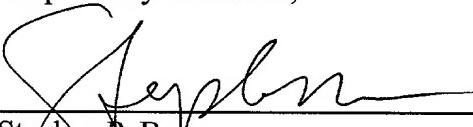
DEPARTMENT OF COMMERCE
U.S. PATENT AND TRADEMARK OFFICE

Claims 1-12 are pending herein. Applicants have amended the claims to eliminate multiple dependent claims. Pursuant to 37 C.F.R. § 1.121(c)(1)(ii), a marked-up version of claims 4, 5, 8-10 and 12 showing the amendments thereto is attached. No new matter has been added. Applicants believe the case is now in condition for examination.

If the Examiner believes that contact with applicants' attorney would be advantageous toward the disposition of this case, he is herein requested to call applicants' attorney at the phone number noted below.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



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Changes made to claims 4, 5, 8-10 and 12 are as follows:

4. (Amended) A method for forming a polarization-inversed portion as defined in ~~any one of claims 1-3~~ claim 1, wherein the first electrode is composed of a ctenoid electrode having plural strip electrode pieces, and the distance between the first electrode and the second electrode is controlled through the adjustment of the lengths of the electrode pieces of the first electrode.

5. (Amended) A method for forming a polarization-inversed portion as defined in ~~any one of claims 1-3~~ claim 1, wherein the second voltage is adjusted in the formation of the second polarization-inversed portion, thereby to control the size of the second polarization-inversed portion.

8. (Amended) A method for forming a polarization-inversed portion as defined in ~~any one of claims 1-3~~ claim 1, wherein the first electrode is positive and the second electrode is negative.

9. (Amended) A method for forming a polarization-inversed portion as defined in ~~any one of claims 1-3~~ claim 1, wherein a positive potential is applied to the first electrode on a planer electrode, provided on the rear surface of the substrate and connected with the first electrode, being set to be negative.

10. (Amended) A method for forming a polarization-inversed portion as defined in ~~any one of claims 1-3~~ claim 1, wherein a polarization axis of the substrate is inclined from a direction parallel to the main surface.

12. (Amended) A method for forming a polarization-inversed structure as defined in claims 1-3 claim 1, wherein plural first polarization-inversed portions and plural second polarization-inversed portions are formed to constitute a periodical polarization-inversed structure.